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1 INTRODUCTION

1.1 COLBERT FACILITY INFORMATION SUMMARY

SITE:	Colbert Landfill, Colbert WA (SE ¼ SE ¼, Section 3, Township 27 north, Range 43 east)
REPORTING PERIOD:	October 1, 2004 through December 31, 2004.
REGULATORY AUTHORITY:	Washington State Department of Ecology, EPA Scope of work for Remedial Action as stated in the consent decree.
TECHNOLOGY:	Pump and treat extraction system using above ground airstripping tower
CONSTITUENTS OF CONCERN:	1,1,1-Trichloroethane (TCA), 1,1-Dichloroethane (DCA), 1,1-Dichloroethene (DCE), Trichloroethene (TCE), Tetrachloroethane (PCE), Methlyene Chloride (MC)
CRITERIA:	Criteria were established as stated in the Consent Decree. See Table 1-1.
SAMPLING PROGRAMS:	<u>RA compliance and NPDES monitoring</u> - Sampling done in accordance with SAP as stated in the <i>Colbert Landfill Operations and Maintenance Manual, 1998</i> . <u>Domestic well sampling</u> - Sampling done in accordance with the <i>Colbert residential Quality Assurance and Field Sampling Plan, 1991</i> . See Figure 1-1 for well locations. See Table 1-2 for well designations and Table 1-3 sampling schedule.
FACILITY STARTUP	May 18, 1994
RESULTS:	Total volume of water treated to date is 4367 million gallons. Total mass of constituent of concern contaminants removed from influent to date is 9521 lbs. The effluent from the facility has achieved all applicable criteria since facility startup. The south system (upper aquifer) extraction wells have achieved shutdown/standby status during this reporting period.

Table 1-1 Colbert Landfill Remedial Action Regulatory Criteria

CRITERIA	TCA	DCE	DCA	TCE	PCE	MC	Cl	Fe	Mn	Zn	TOC	COD	SO4	NO2+NO3	TP
Criteria to be achieved for completion of RA Performance	200	7	4050	5	0.7	2.5									
Criteria to be achieved in monitoring wells during RA operation Evaluation	200	7	4050	5	7	25									
Operational Control															
If exceeded, an adjustment to interception system is needed	South	33	NA	610	NA										
	West	31	NA	610	NA										
Adjustment Control															
If exceeded, a modification to interception system is needed	South	103	4.5	2026	3.3										
	West	101	4.5	2026	3.3										
Domestic															
Monthly sampling initiated, evaluated in 12 months Exceedance requires alternative drinking water source be supplied	Action Level	130	4.55	2632	3.25	0.5	1.63								
	MCL	200	7	4050	5	0.7	2.5								
NPDES															
Monthly Maximum Daily		7	4050	5	7	25	230	0.3	0.05					0.93	
MFS															
		7	4050	5	7	25	250	0.3	0.05	5	NA	NA	250	10	NO3

Figure 1-1 Colbert Landfill RA System Components and Well Locations

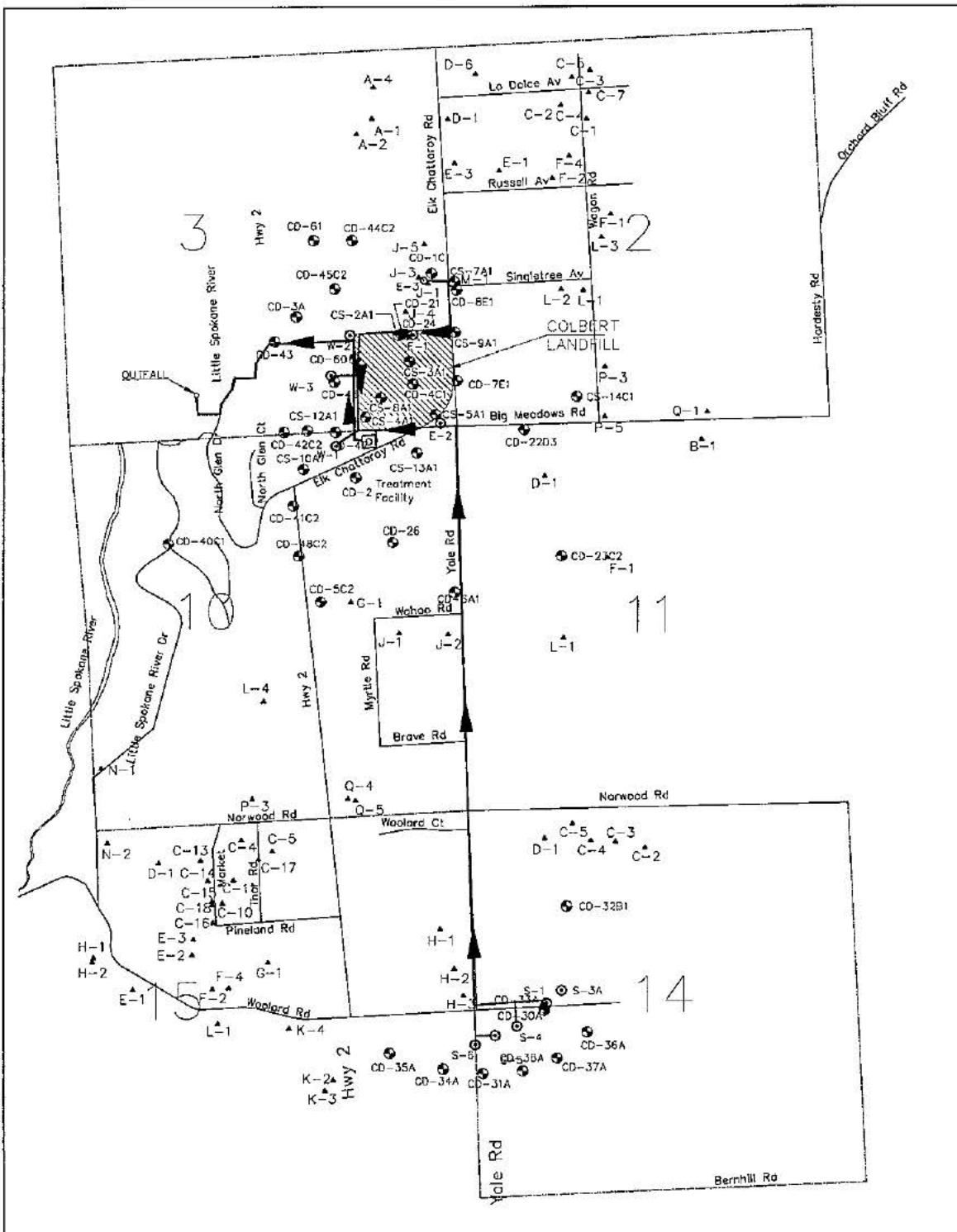


Table 1-2 Colbert Landfill Well Designations

WELL ID	AQUIFER	DESIGNATION	MONITORING PROGRAM
CD-31A1	upper	Downgradient	Compliance
CD-34A1	upper	Outboard	Compliance
CD-36A1	upper	Downgradient	Compliance
CD-37A1	upper	Downgradient	Compliance
CD-38A1	upper	Downgradient	Compliance
CP-S3	upper	Outboard	Compliance
CD-41C1	lower	Set A	Compliance
CD-41C2	lower	Set A	Compliance
CD-41C3	lower	Set A	Compliance
CD-42C1	lower	Set A	Compliance
CD-42C2	lower	Set A	Compliance
CD-42C3	lower	Set A	Compliance
CD-43C1	lower	Set B	Compliance
CD-43C2	lower	Set B	Compliance
CD-43C3	lower	Set B	Compliance
CD-44C1	lower	Set B	Compliance
CD-44C2	lower	Set B	Compliance
CD-44C3	lower	Set B	Compliance
CD-45C1	lower	Outboard	Compliance
CD-45C2	lower	Outboard	Compliance
CD-45C3	lower	Outboard	Compliance
CD-48C1	lower	Set A/Outboard	Compliance
CD-48C2	lower	Set A/ Outboard/MFS	Compliance/MFS
CD-48C3	lower	Set A/Outboard	Compliance
CD-03A1	upper	MFS	MFS
CD-60A1	upper	MFS	MFS
CD-61A1	upper	MFS	MFS
CS-04A1	upper	MFS	MFS
CP-S1	upper	Extraction	Compliance
CP-S4	upper	Extraction	Compliance
CP-S5	upper	Extraction	Compliance
CP-S6	upper	Extraction	Compliance
CP-E1	lower	Extraction	Compliance
CP-E2	lower	Extraction	Compliance/MFS
CP-E3	lower	Extraction	Compliance
CP-W1	lower	Extraction	Compliance
CP-W2	lower	Extraction	Compliance
CP-W3	lower	Extraction	Compliance

Table 1-3 Colbert Landfill Sampling Schedule

Parameters and Method	Compliance Wells		NPDES		MFS Wells	
	Monitoring	Extraction	Influent	Effluent	Upper	Lower
VOC'S EPA 524.2	Annual	Quarterly	Monthly	Monthly	Annual	
Chloride EPA 300.0				Quarterly	Annual	Quarterly for first two years
NO ₃ + NO ₂ EPA 535.3				January, May, June, July		
Total Phosphorus EPA 365.3				January, May, June, July		
NO ₂ /NO ₃ /NH ₃ EPA 300.0/354.1/ 350.1					Annual	Quarterly for first 2 years
SO ₄ /TOC/COD EPA 300.0/415.1/ 410.1					Annual	Quarterly for first 2 years
Fe, Mn EPA 6010				Quarterly	Annual	Quarterly for first 2 years
Zn EPA 6010					Annual	Quarterly for first 2 years
Toxicity				Semi-Annual		

2 PERFORMANCE

2.1 PERFORMANCE DATA

2.1.1 FIELD DATA

UPPER AQUIFER

Field parameters for this reporting period are shown in Table 2-1. Extraction well CP-S4 had the highest conductivity found in the upper aquifer extraction wells. The pH readings taken in upper aquifer wells ranged from 7.1 to 7.2. Groundwater elevations in the upper aquifer wells upgradient from the extraction wells decreased while elevations in wells near the extraction wells increased slightly (Figure 2-1). Upper aquifer groundwater elevation contours and flow paths are presented in Figure 2-2.

LOWER AQUIFER

Lower aquifer extraction well field parameters are presented in Table 2-1. East system extraction wells exhibit higher conductivities and lower pH values than the west system extraction wells. Extraction well CP-E2 had the highest conductivity at 1126 umhos/cm. Extraction well CP-W2 had the lowest conductivity at 410 umhos/cm. In general, groundwater elevations in the lower aquifer decreased when compared with the previous quarter (Figure 2-3). Figure 2-4 presents lower aquifer groundwater elevation contours and flow paths.

INFLUENT/EFFLUENT

Influent and effluent quarterly field parameters are presented in Figure 2-5 and Figure 2-6.

2.1.2 CRITERIA EXCEEDANCES

UPPER AQUIFER

All south system extraction wells had constituent of concern concentrations below evaluation criteria and adjustment control criteria during this reporting period. All domestic wells sampled during this reporting period were below applicable criteria as well.

LOWER AQUIFER

Extraction wells CP-E1, CP-E2, CP-E3, CP-W2 and CP-W3 had DCE concentrations above the evaluation criteria (Table 2-2). Extraction wells CP-E2 and CP-W3 had TCE concentrations above the evaluation criteria as well. Wells in the domestic sampling program sampled during this reporting period were below applicable criteria.

INFLUENT/EFFLUENT

Influent samples taken this reporting period exceeded the evaluation criteria for DCE and TCE (Table 2-2). There were no effluent criteria exceedances.

2.1.3 CHEMICAL DATA

UPPER AQUIFER

Constituent of concern concentrations at the south system extraction wells were slightly higher than previous quarters (Table 2-3, Figure 2-7 and Figure 2-8). Selected upper aquifer domestic wells TCA and DCE concentrations versus time are presented in Figure 2-9. Upper aquifer TCA plume boundaries for the fourth quarter 2004 are shown in Figure 2-10.

LOWER AQUIFER

Constituent of concern concentrations in extraction wells CP-W2 and CP-W3 exhibited an overall increase from the previous quarter. Constituent of concern concentrations (TCA, DCA and DCE) in all east system extraction wells increased during the quarter (Figure 2-11 through Figure 2-14). Domestic wells in the lower aquifer show TCA levels consistent with previous quarters and are well below the applicable criteria (Figure 2-15). Lower aquifer TCA plume boundaries for this reporting period are shown in Figure 2-16.

INFLUENT/EFFLUENT

VOC concentrations found in the influent are presented in Figure 2-17. Additional VOC analytes detected in the influent include CFC-12, chloroform, cis-1,2-DCE, and trichlorofluoromethane. There were no VOC's detected in the effluent.

2.1.4 MASS REMOVAL

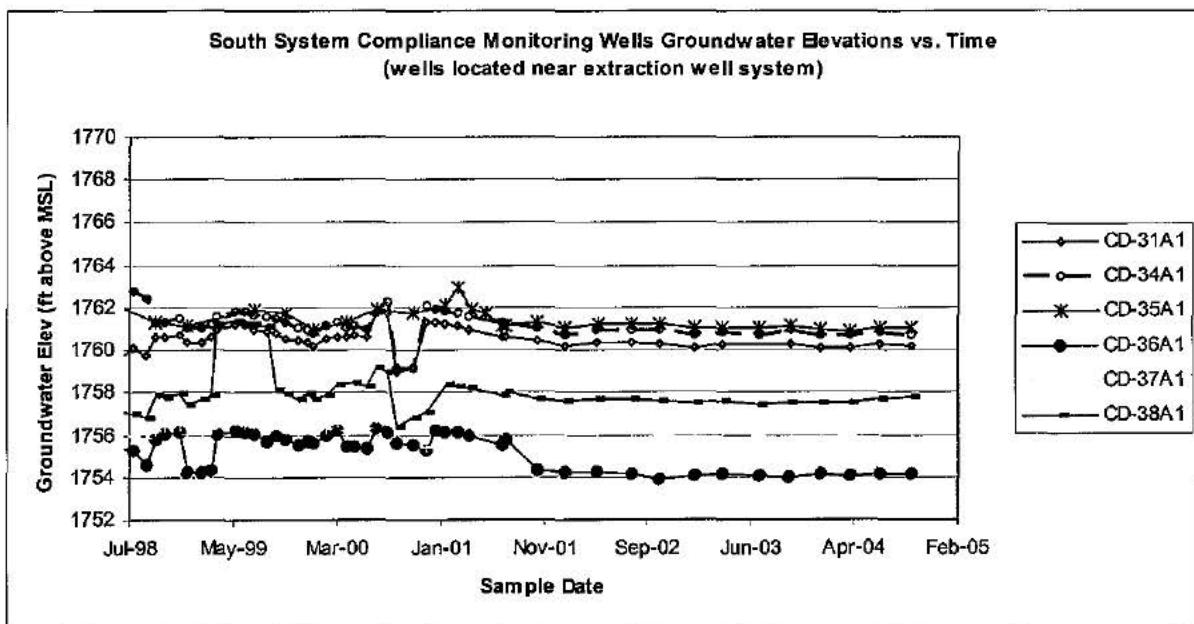
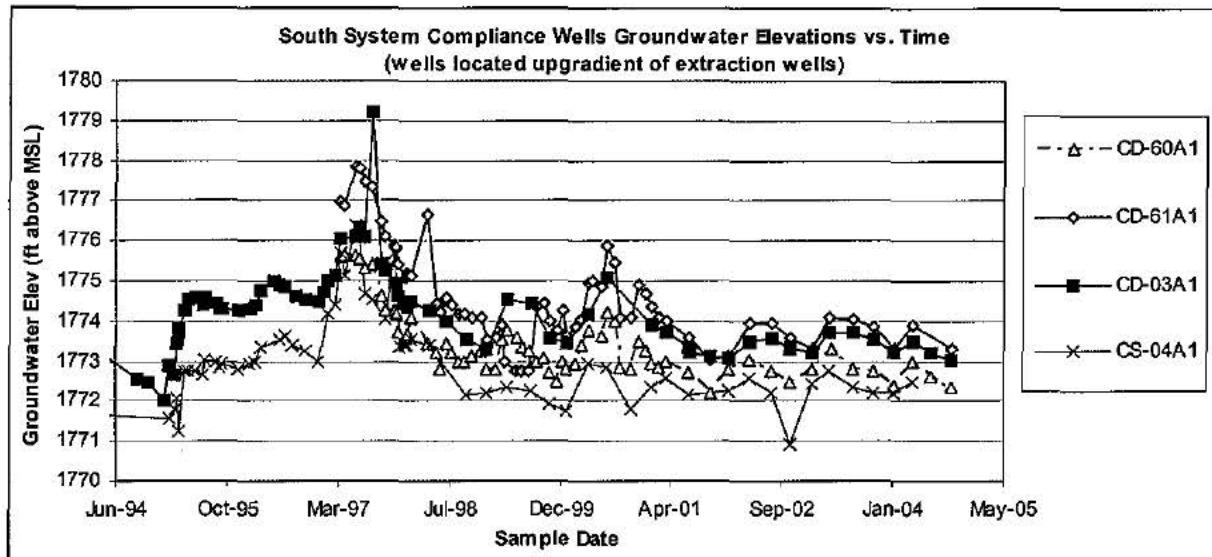
Since facility startup, an approximate 4367 million gallons of water have been treated through the airstripping tower (Figure 2-18). A total of 63 pounds of constituent of concern contaminants were removed from the 90.8 million gallons treated during this reporting period. Last quarter, 71 pounds of constituent of concern contaminants were removed from a total of 93.2 million gallons of water treated.

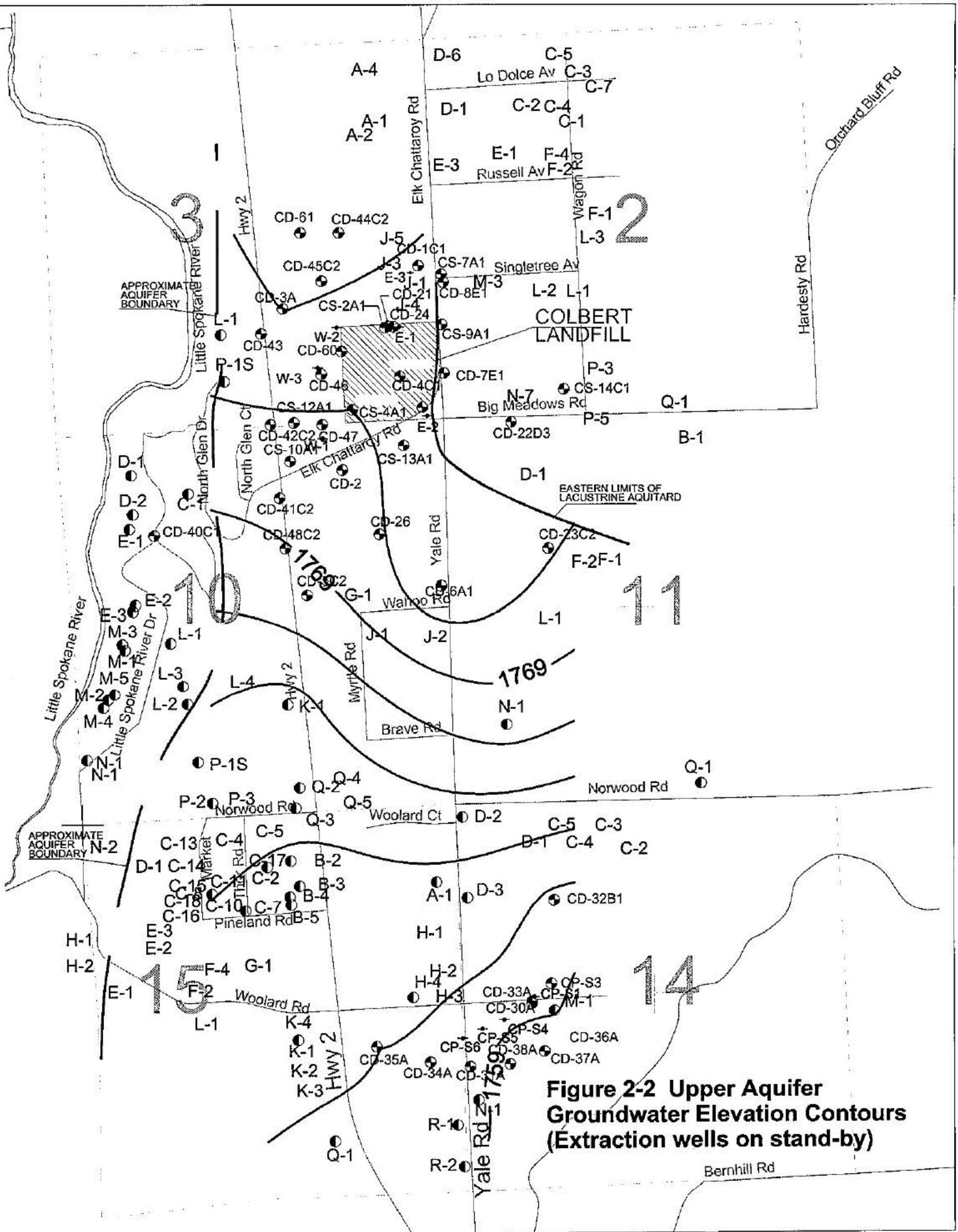
Extraction well CP-W2 contributed the greatest volume of water and greatest mass of constituents received at the facility during this reporting period when compared to the other extraction wells (Figure 2-19). Extraction wells CP-E2 and CP-E1 had the highest mass of constituent removed relative to the volume of groundwater contributed.

Table 2-1 Colbert Landfill Quarterly Monitoring Well Field Parameters

StationID	SampleDate	FieldTemp	FieldPH	FieldConductivity	FieldTurbidity	Aquifer
CP-E1	10/5/04	11.7	6.9	685	0.23	lower
CP-E2	10/5/04	13.7	7	1126	0.12	lower
CP-E3	10/5/04	11.5	7.1	614	0.14	lower
CP-W1	10/5/04	12.2	7.7	496	0.16	lower
CP-W2	10/5/04	10.2	7.5	410	0.13	lower
CP-W3	10/5/04	12	7.4	481	0.38	lower
CP-S1	10/5/04	10.7	7.2	721	0.18	upper
CP-S4	10/5/04	15.8	7.1	725	0.21	upper
CP-S5	10/5/04	10.1	7.1	603	0.17	upper
CP-S6	10/5/04	10.5	7.1	615	0.7	upper

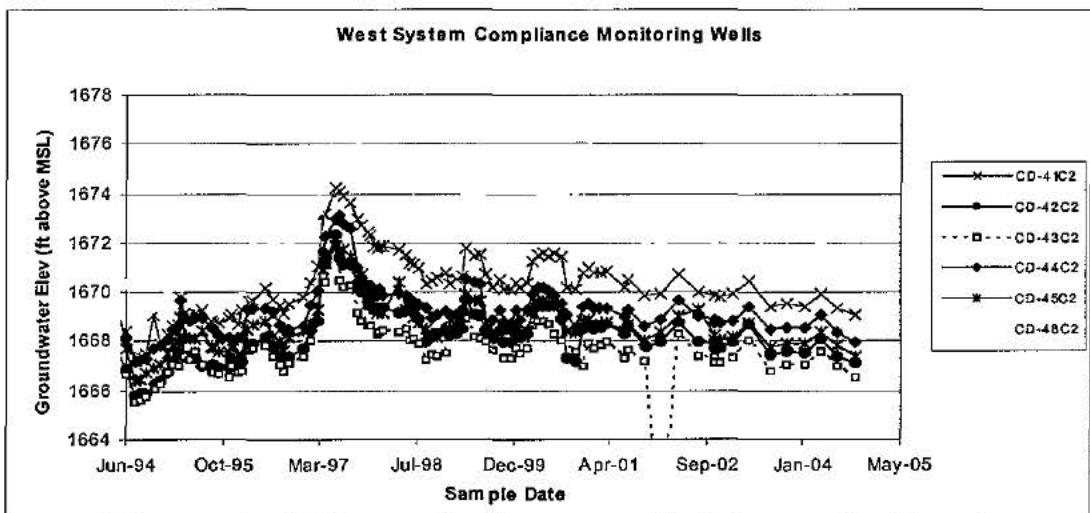
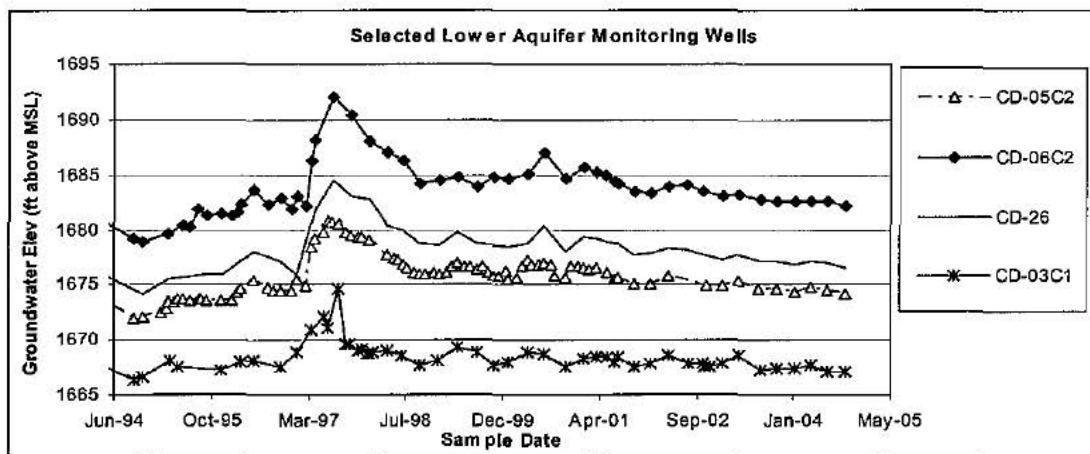
Figure 2-1 Upper Aquifer Groundwater Elevations





**Figure 2-2 Upper Aquifer
Groundwater Elevation Contours
(Extraction wells on stand-by)**

Figure 2-3 Lower Aquifer Groundwater Elevations vs. Time



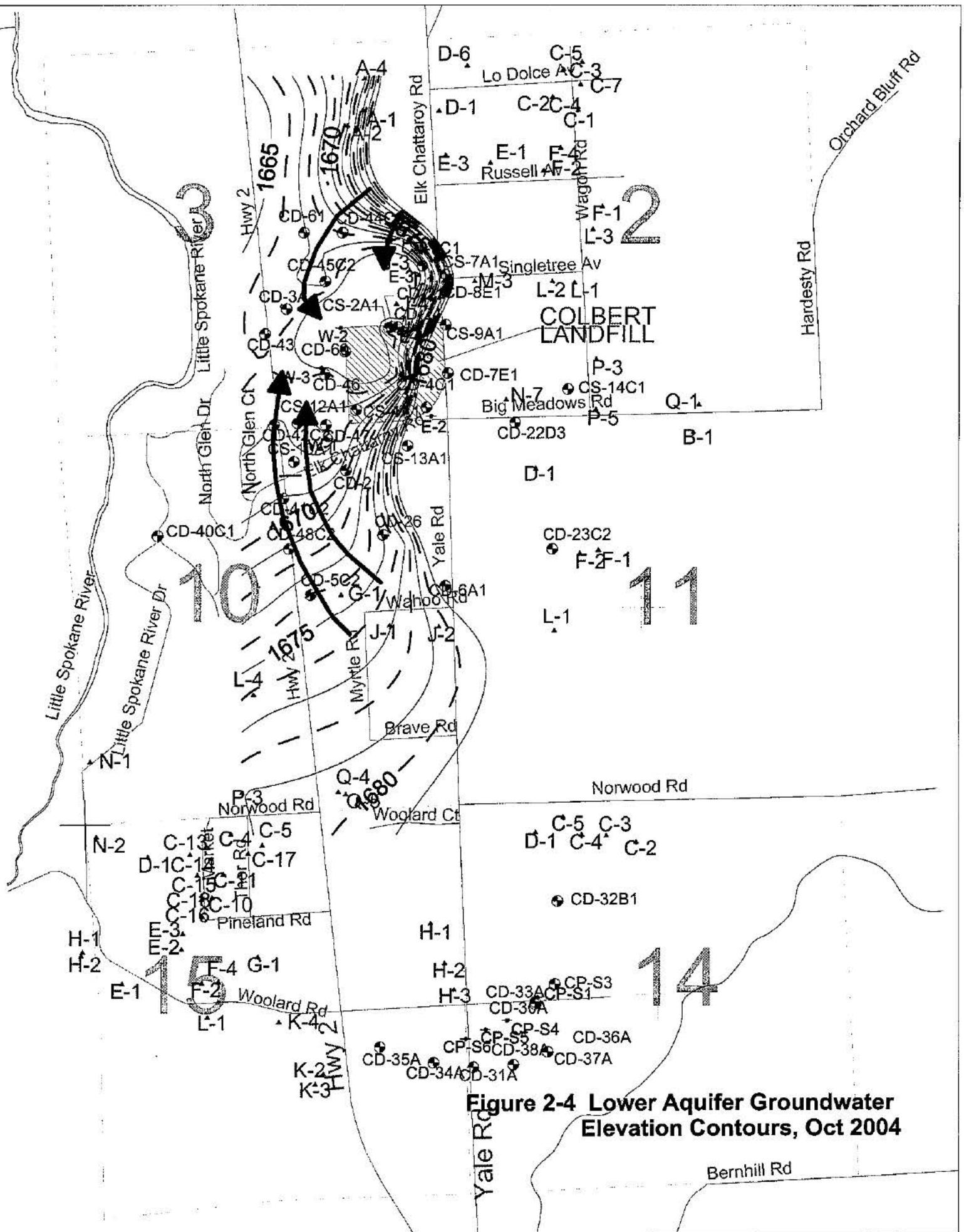


Figure 2-4 Lower Aquifer Groundwater Elevation Contours, Oct 2004

Figure 2-5 Influent Field Parameters

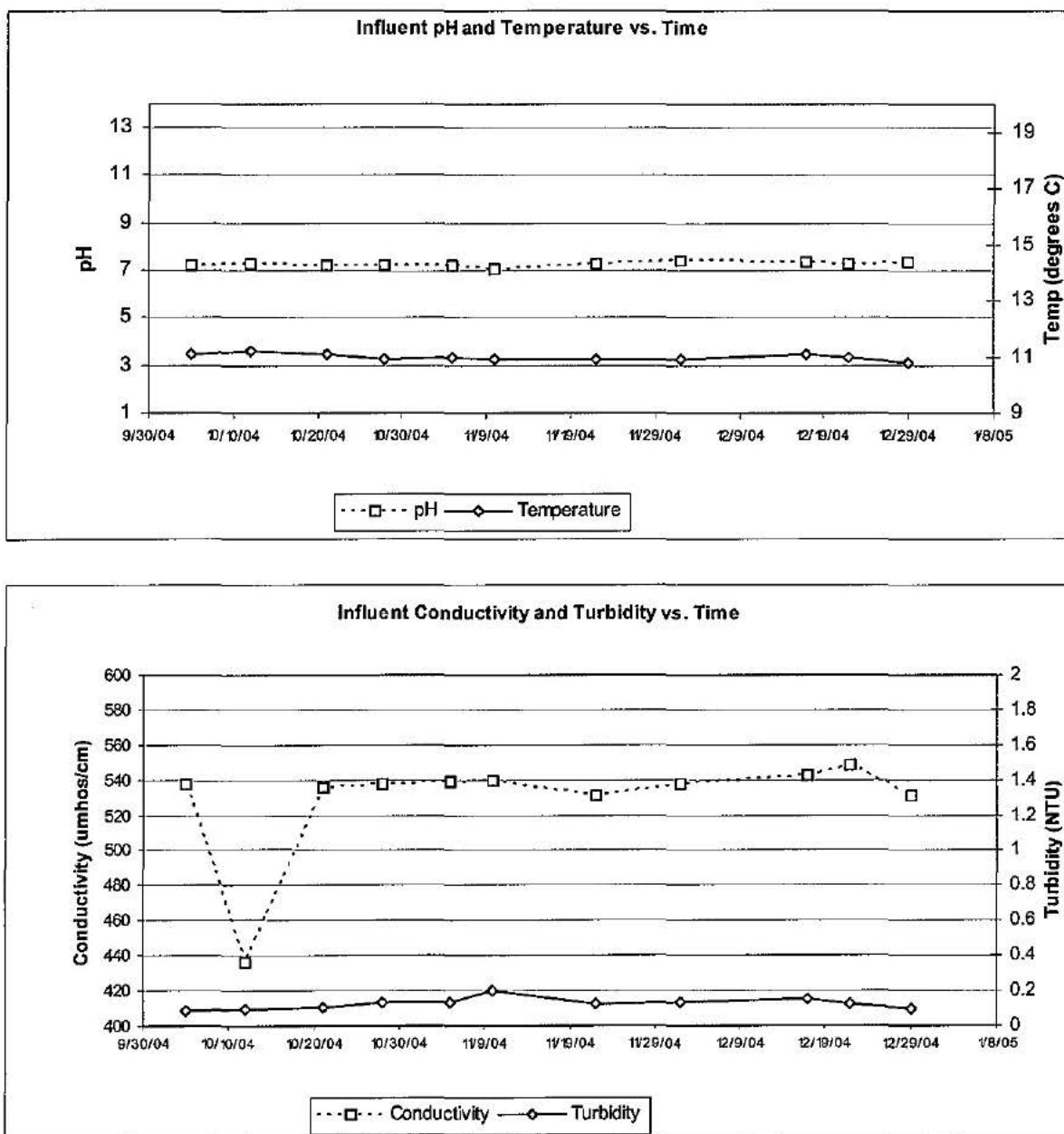


Figure 2-6 Effluent Field Parameters

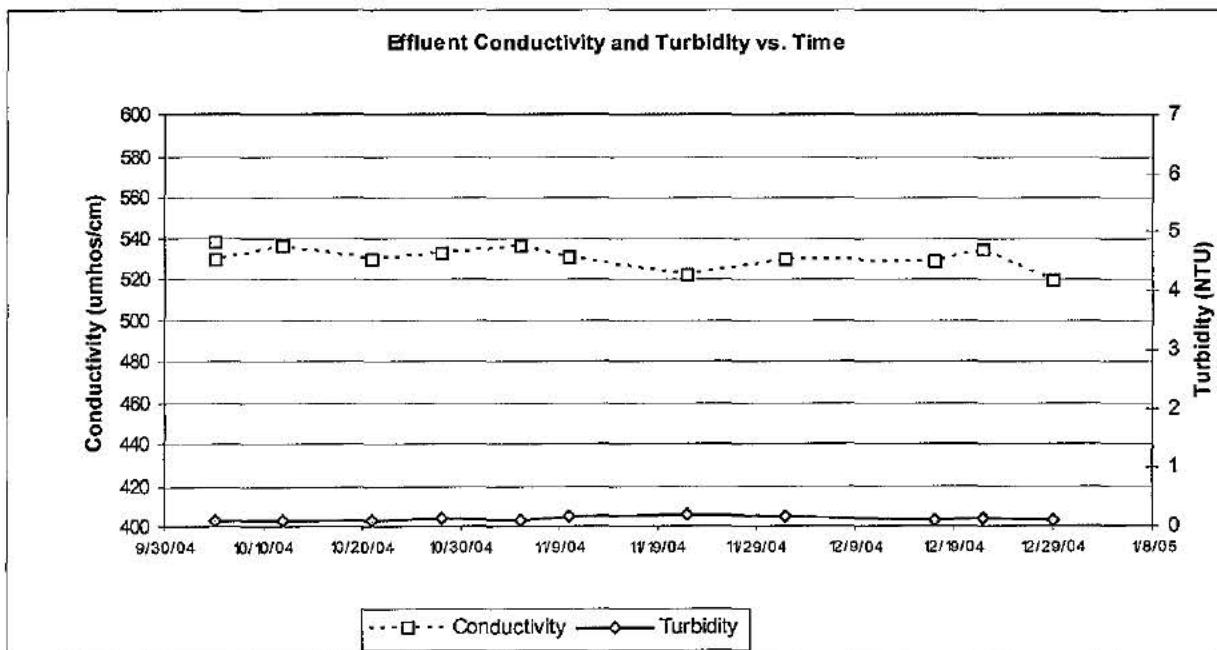
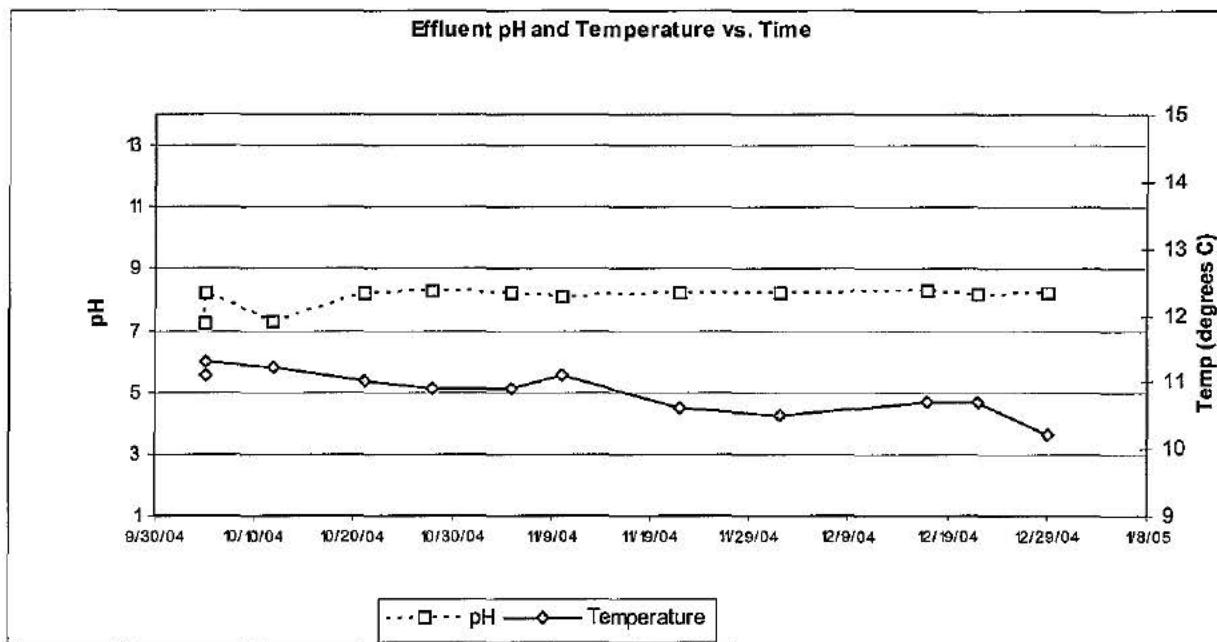


Table 2-2 Evaluation Criteria Exceeded

StationID	SampleDate	AnalyteAbbrev	Concentration
CP-E1	10/5/04	DCE	35.7
CP-E2	10/5/04	DCE	108
CP-E2	10/5/04	TCE	118
CP-E2	10/5/04	DCE	109
CP-E2	10/5/04	TCE	119
CP-E3	10/5/04	DCE	17.6
CP-W2	10/5/04	DCE	28.3
CP-W3	10/5/04	TCE	12.2
CP-W3	10/5/04	DCE	25.2
IN20-11	10/5/04	DCE	24.4
IN20-11	10/5/04	TCE	5.5
IN20-11	10/5/04	DCE	24.1
IN20-11	10/5/04	TCE	5.1
IN20-11	11/10/04	TCE	5.2
IN20-11	11/10/04	DCE	20.3
IN20-11	11/10/04	DCE	21.3

Table 2-4 Domestic Well Sampling Results for the Reporting Period

StationID	Aquifer	SampleDate	LastName	TCA	DCA	DCE	MC	PCE	TCE
0273C-3	lower	10/11/2004	(b) (6)	ND	ND	ND	ND	ND	ND
1073J-1	lower	10/11/2004		4	ND	ND	ND	ND	ND
1073J-2	lower	11/9/2004		ND	ND	ND	ND	ND	ND
1073E-3	upper	10/11/2004		ND	ND	ND	ND	ND	ND
1073P-1	upper	10/11/2004		ND	ND	ND	ND	ND	ND
1573C-7	upper	10/11/2004		ND	ND	ND	ND	ND	ND
1473M-1	upper	10/12/2004		ND	ND	ND	ND	ND	ND
1573K-1	upper	10/12/2004		ND	ND	ND	ND	ND	ND
0373L-1	upper	11/9/2004		ND	ND	ND	ND	ND	ND
1073D-1	upper	11/9/2004		4.2	1.5	0.6	ND	ND	ND
1073D-2	upper	11/9/2004	North Glen Water Assoc.	5	3.3	1.6	ND	ND	ND
1473D-2	upper	11/9/2004	(b) (6)	ND	ND	ND	ND	ND	ND

Figure 2-7 South System Extraction Wells TCA, DCA and DCE Concentrations

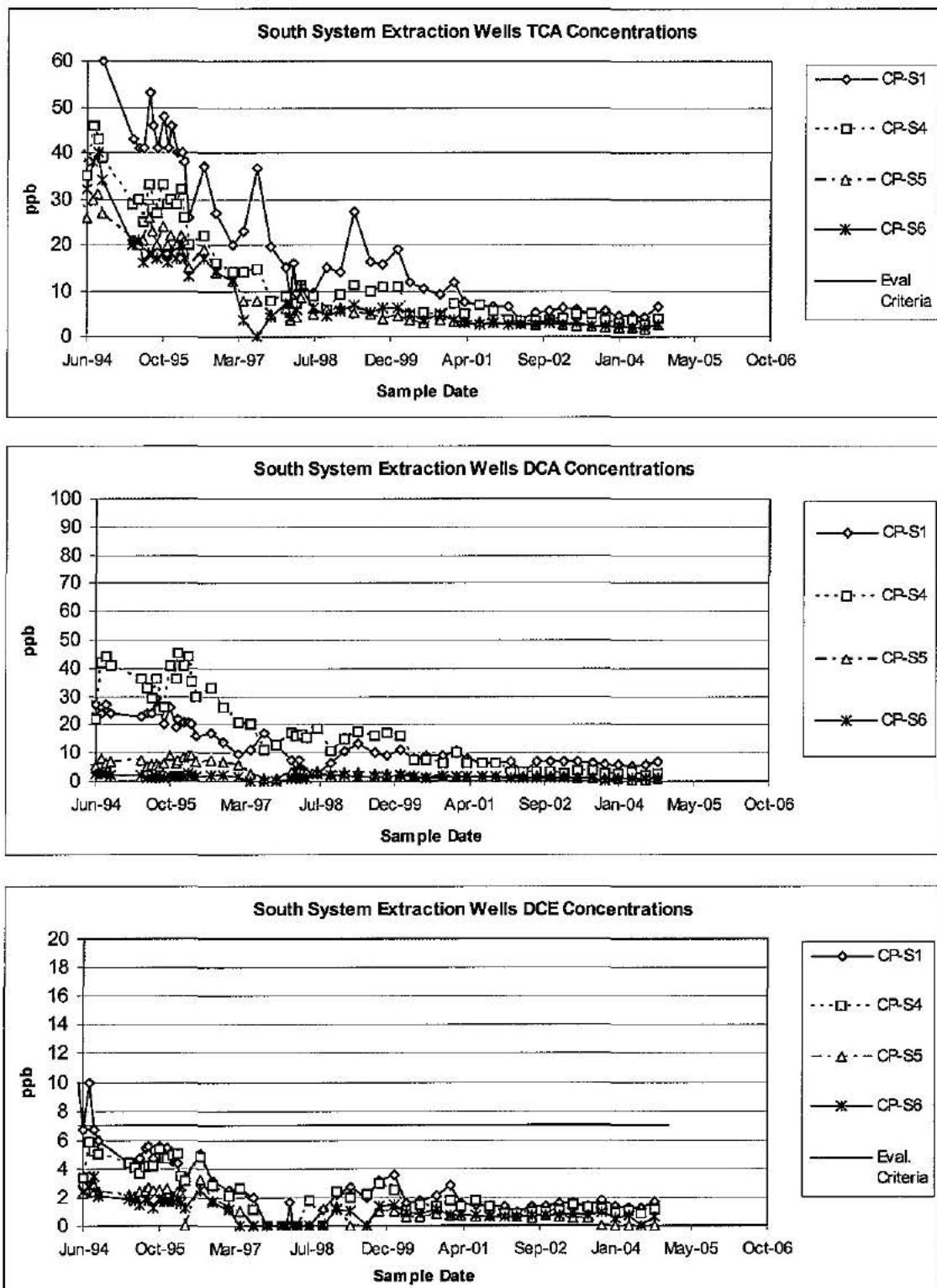


Figure 2-8 South System Extraction Wells TCE, PCE and MC Concentrations

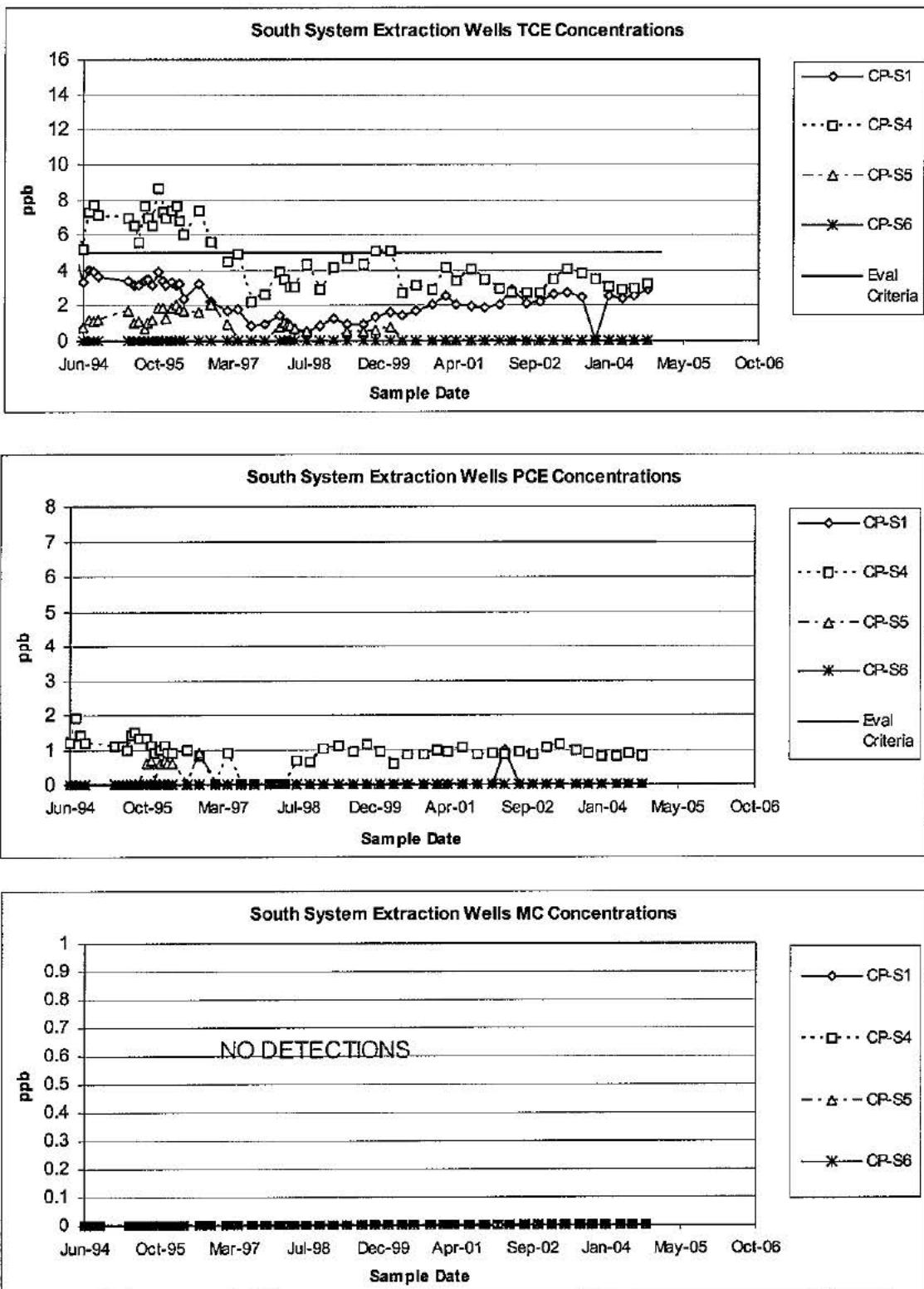
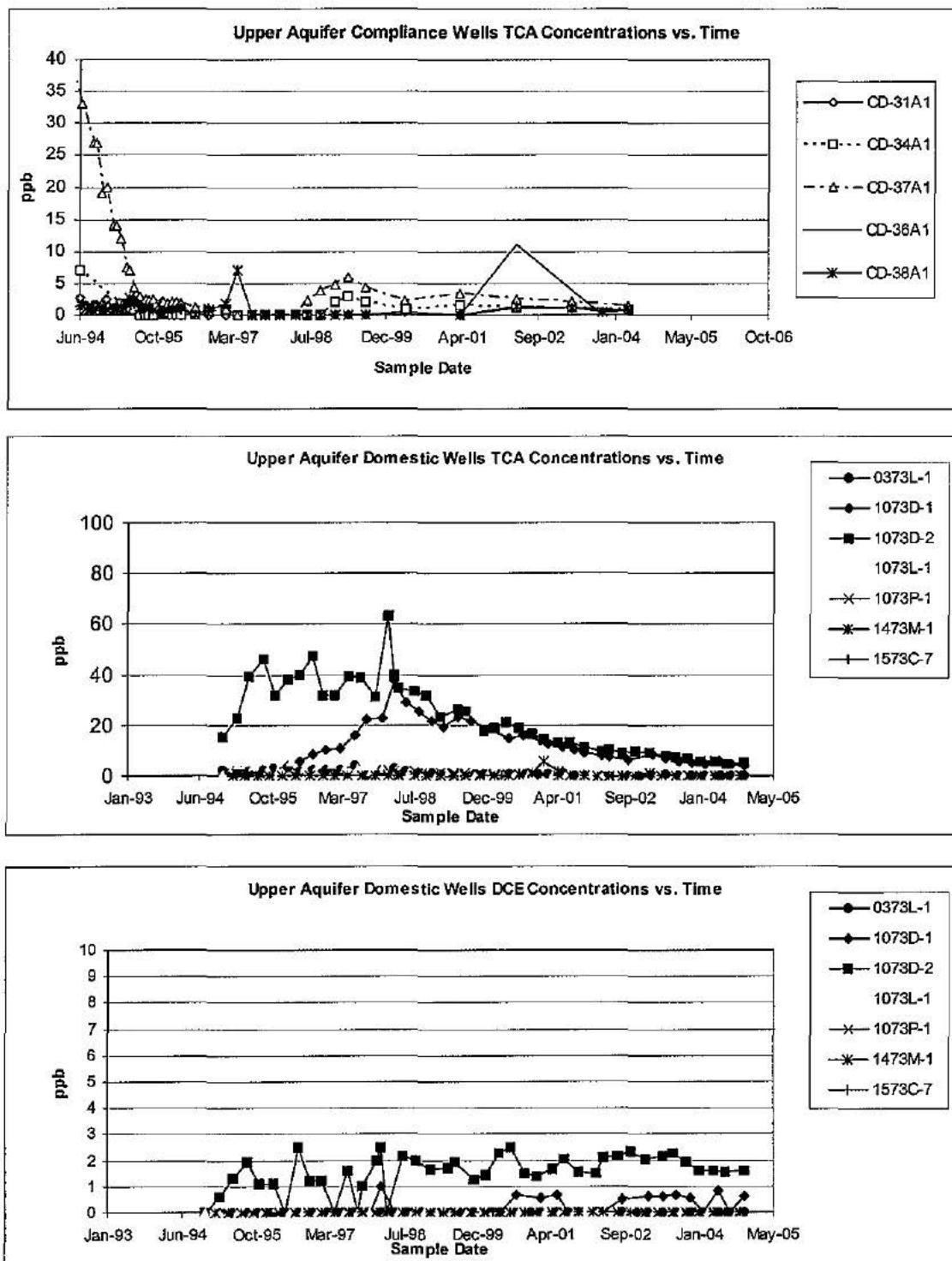


Figure 2-9 Upper Aquifer Compliance and Domestic Well Constituents



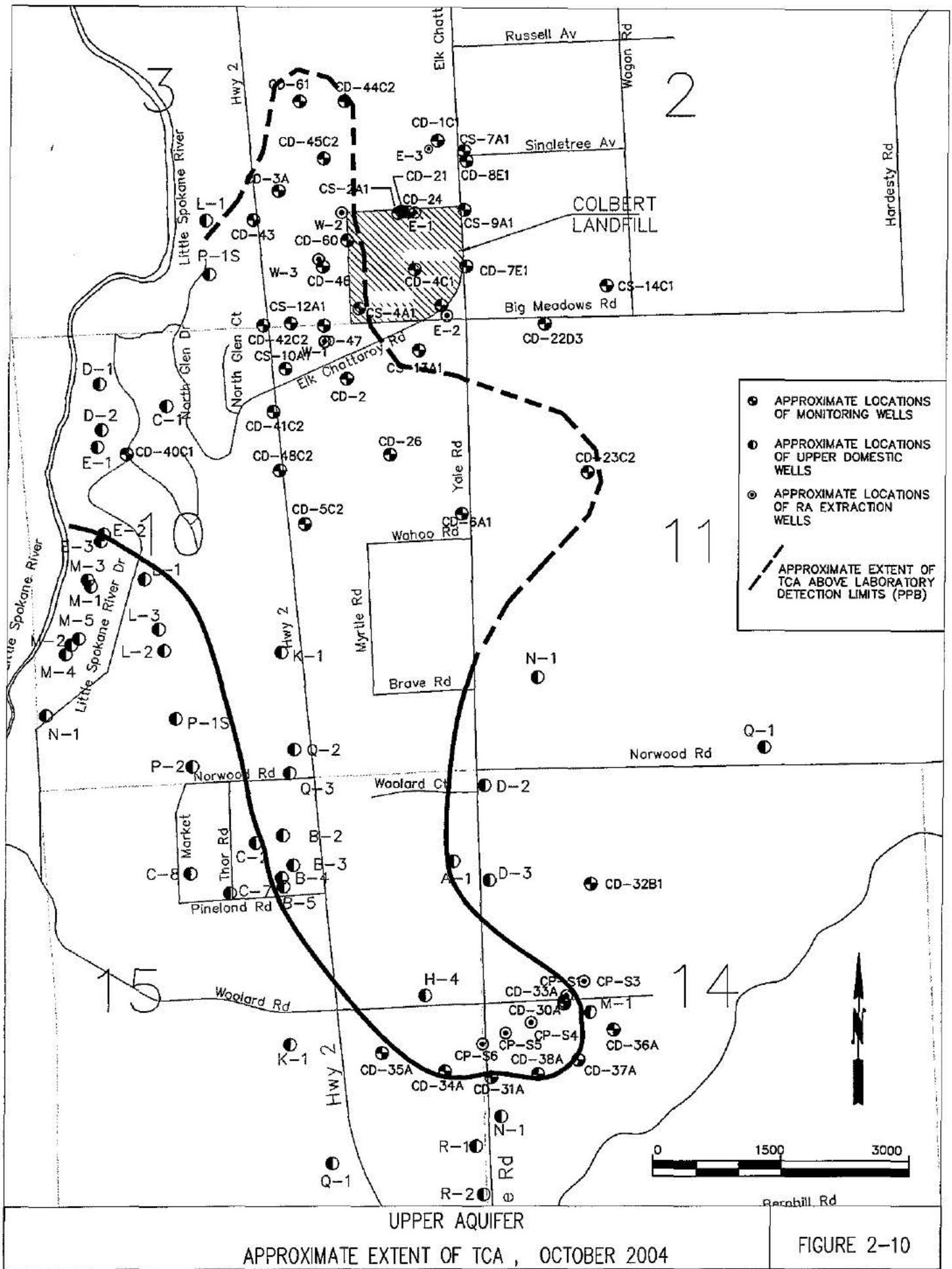


FIGURE 2-10

Figure 2-11 West System Extraction Wells TCA, DCA and DCE Concentrations

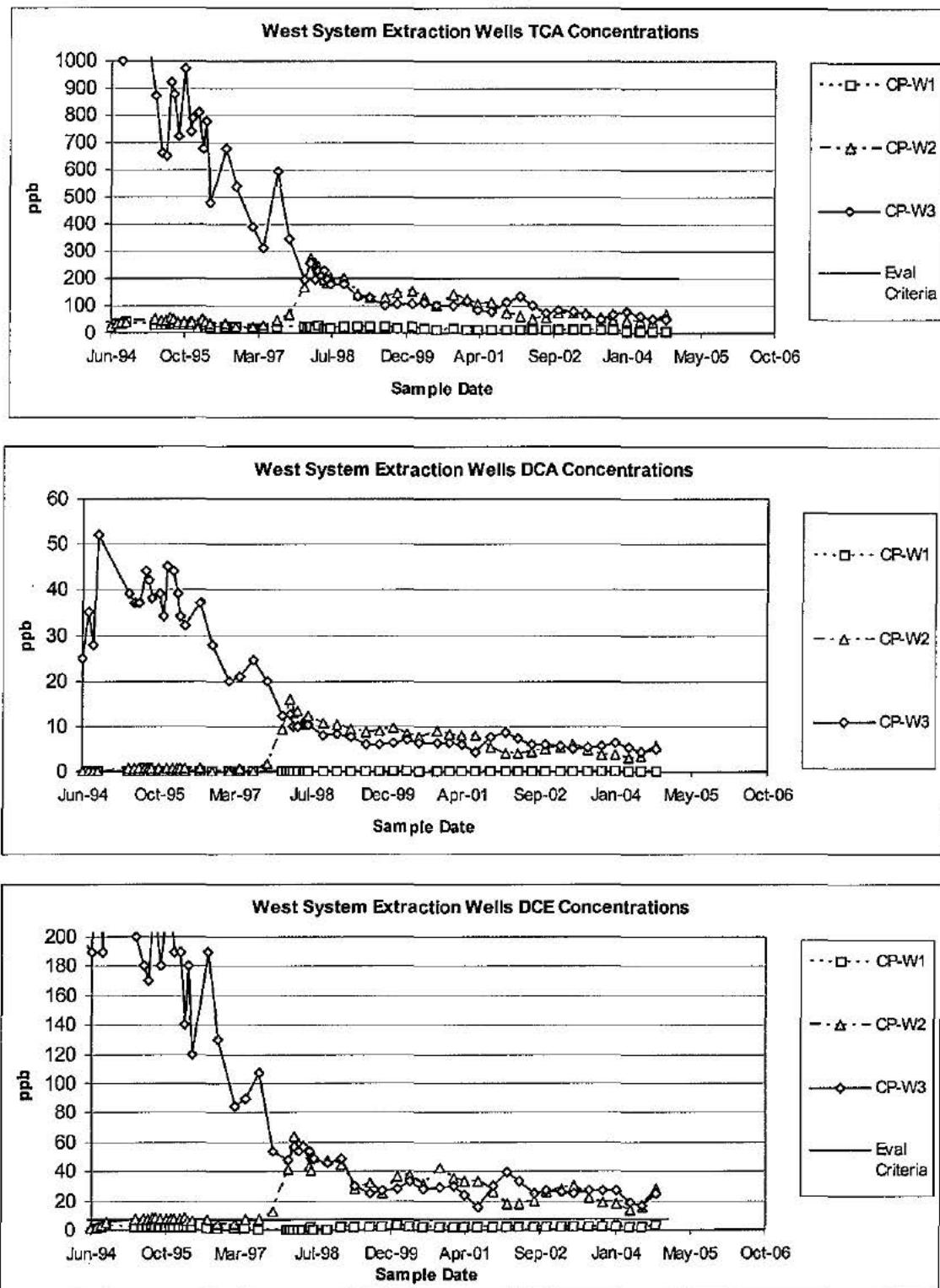


Figure 2-12 West System Extraction Wells TCE, PCE and MC Concentrations

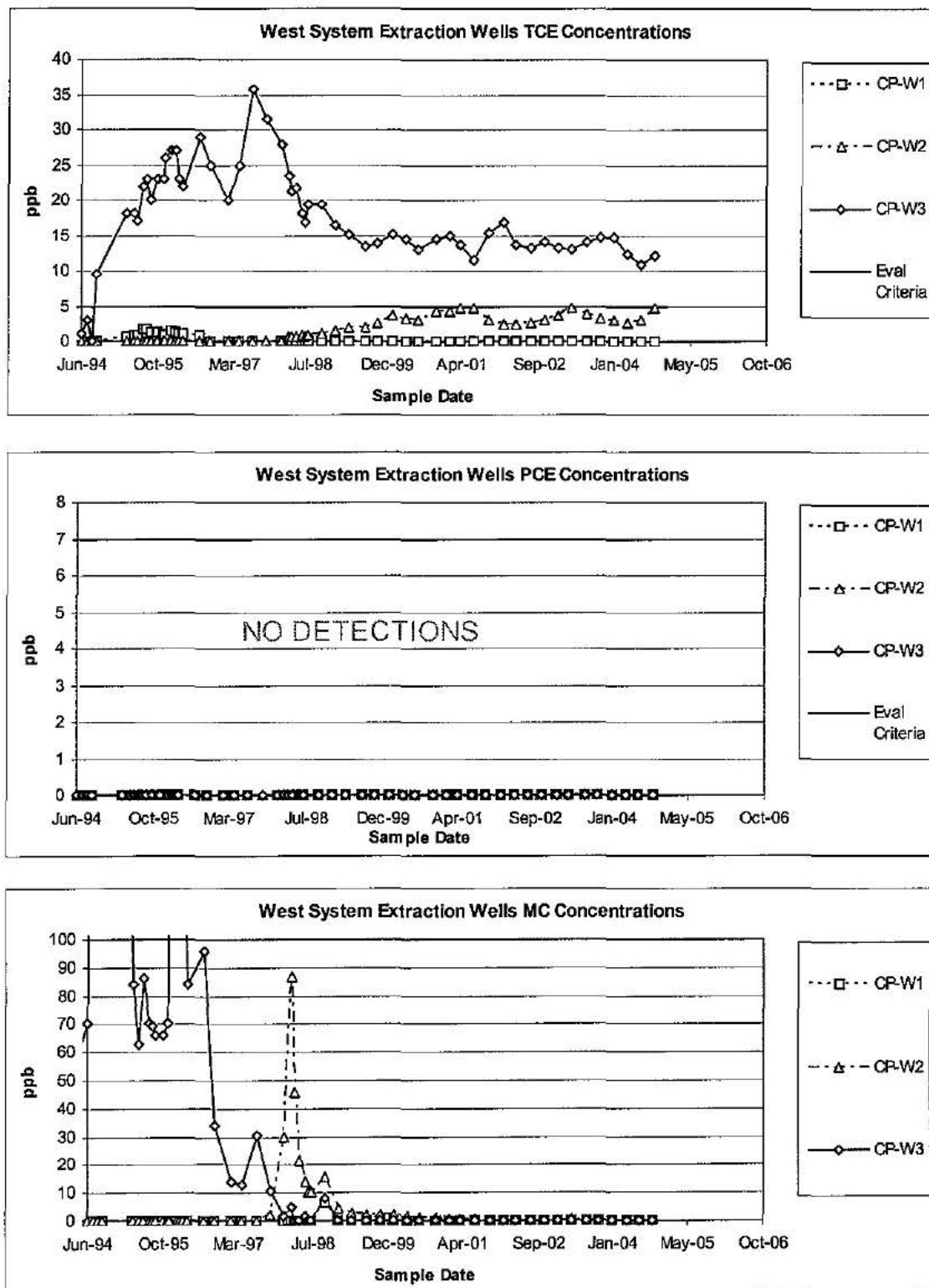


Figure 2-13 East System Extraction Wells TCA, DCA and DCE Concentrations

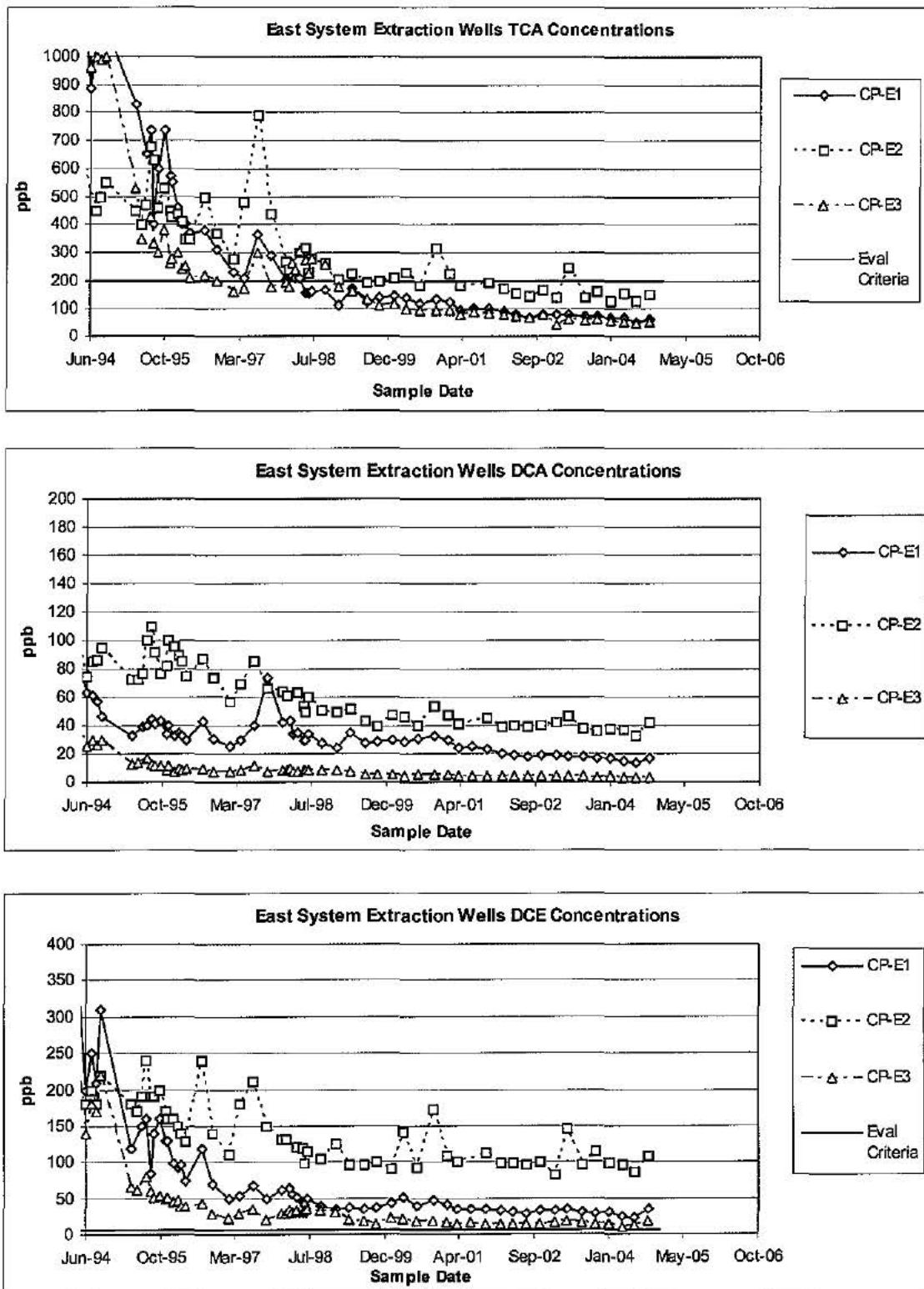


Figure 2-14 East System Extraction Wells TCE, PCE and MC Concentrations

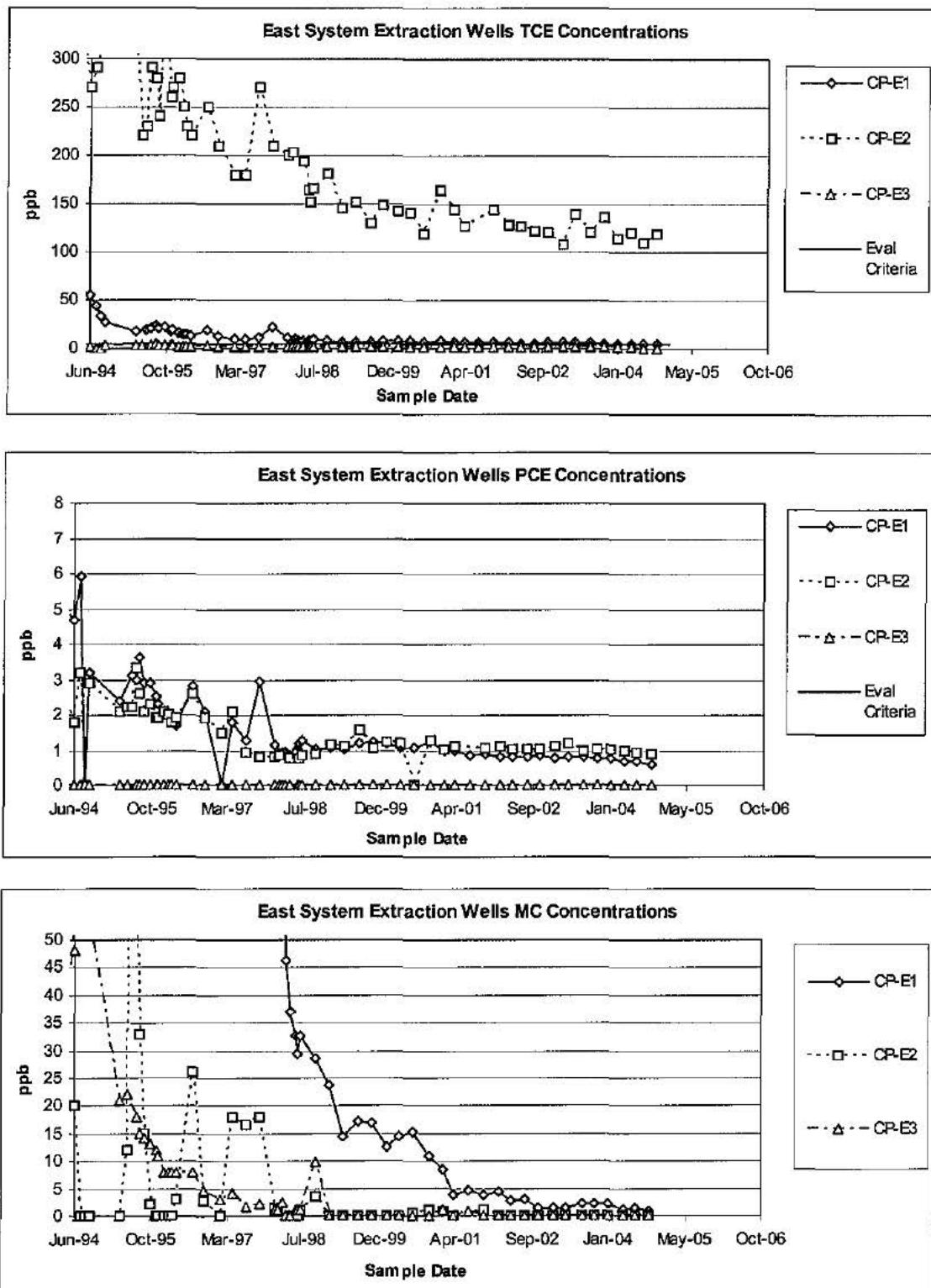
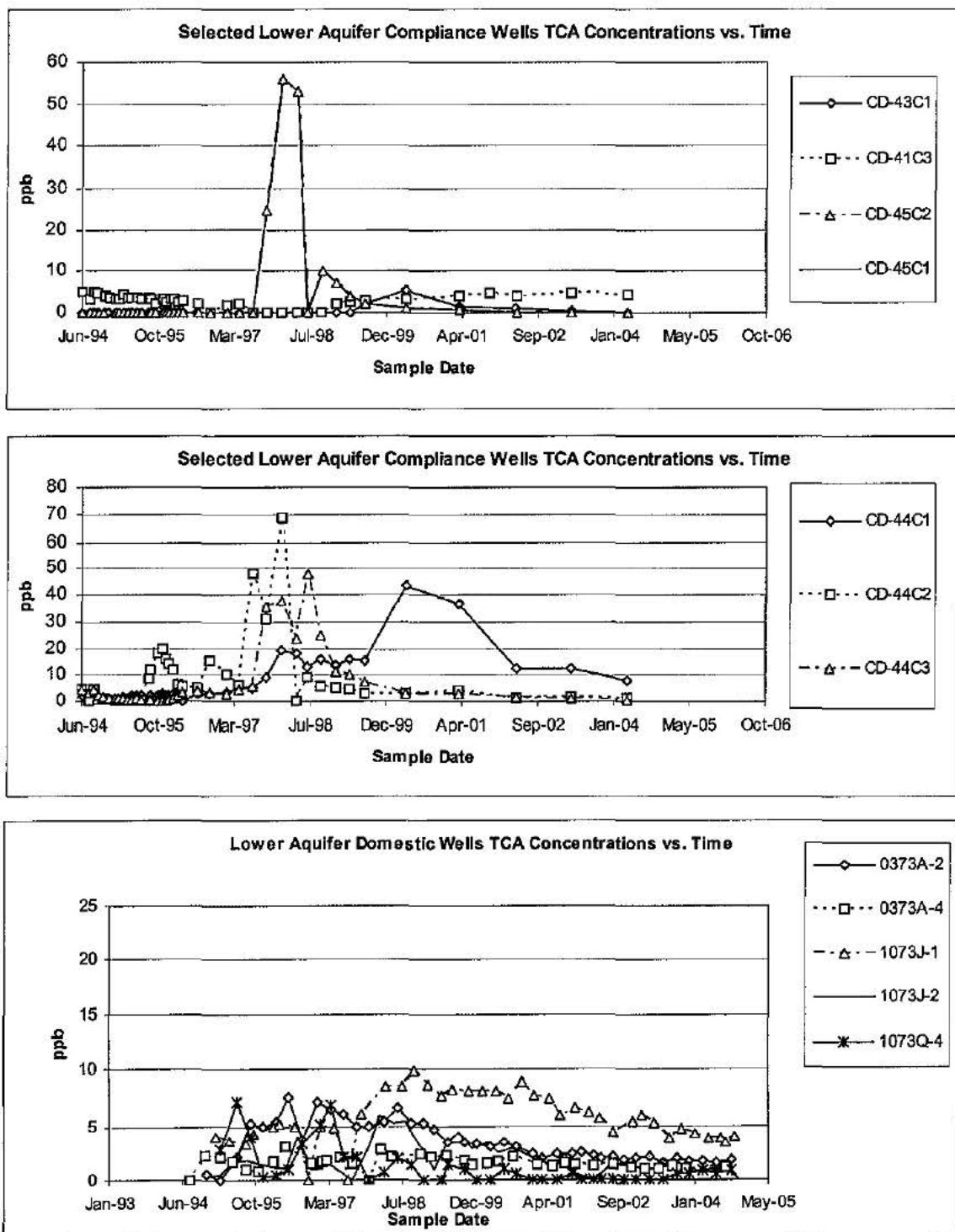


Figure 2-15 Lower Aquifer Compliance and Domestic Well Analyte Concentrations



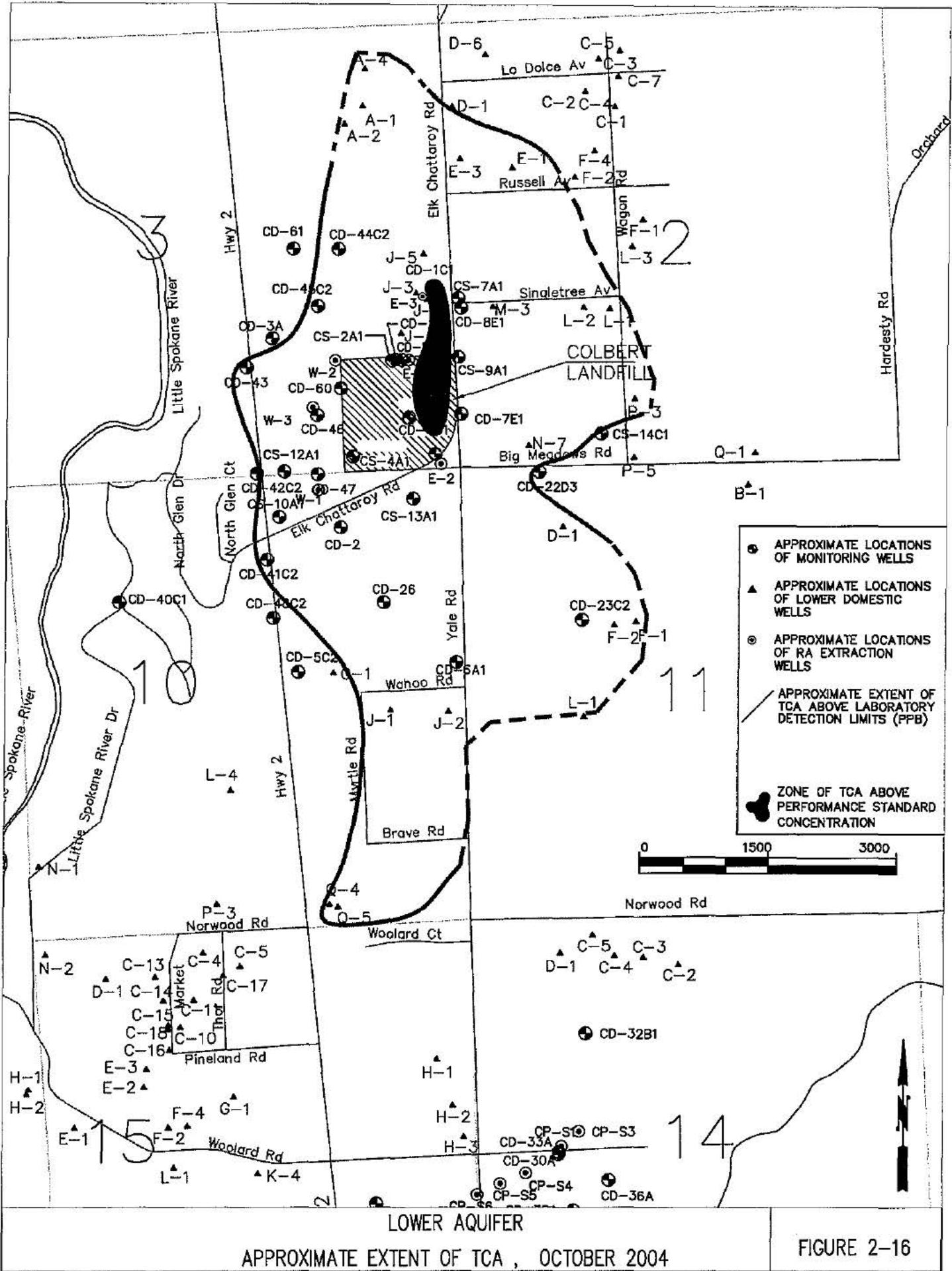


Figure 2-17 Influent and Effluent Analyte Concentrations

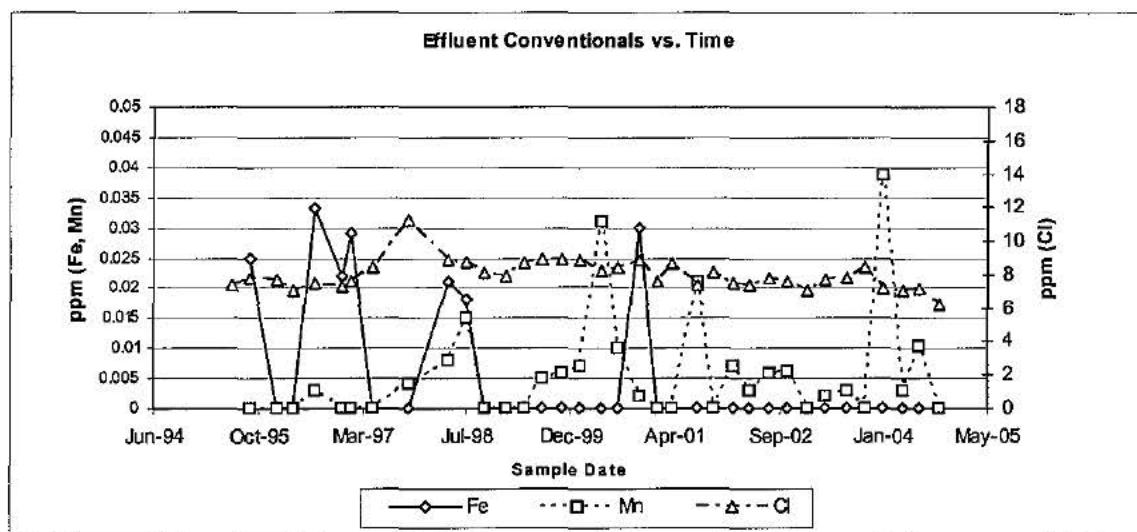
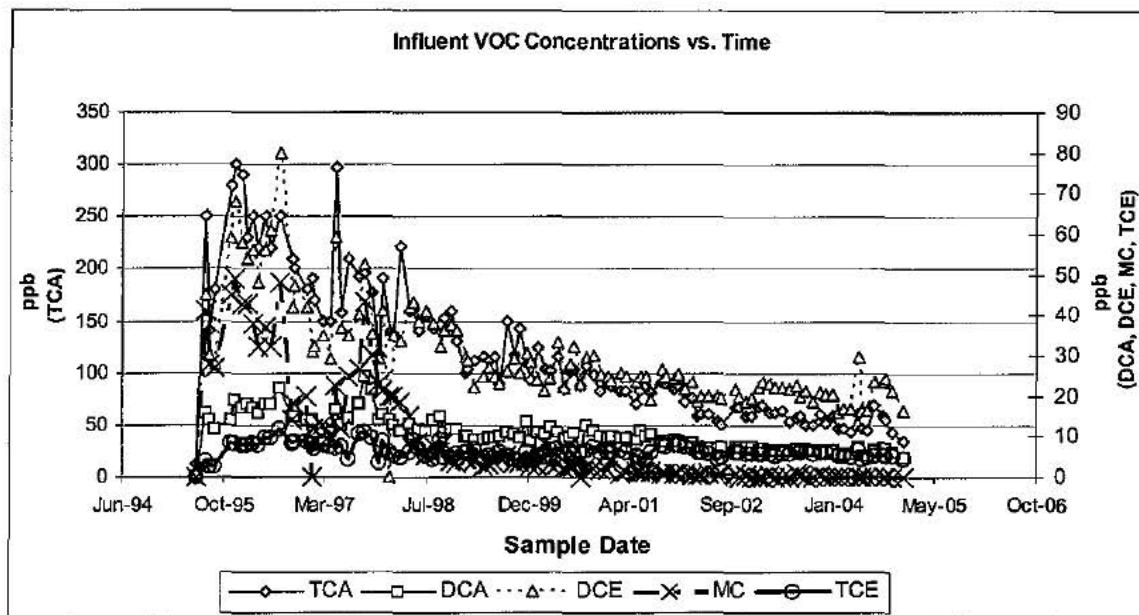


Figure 2-18 Facility Flow, Mass and Concentrations

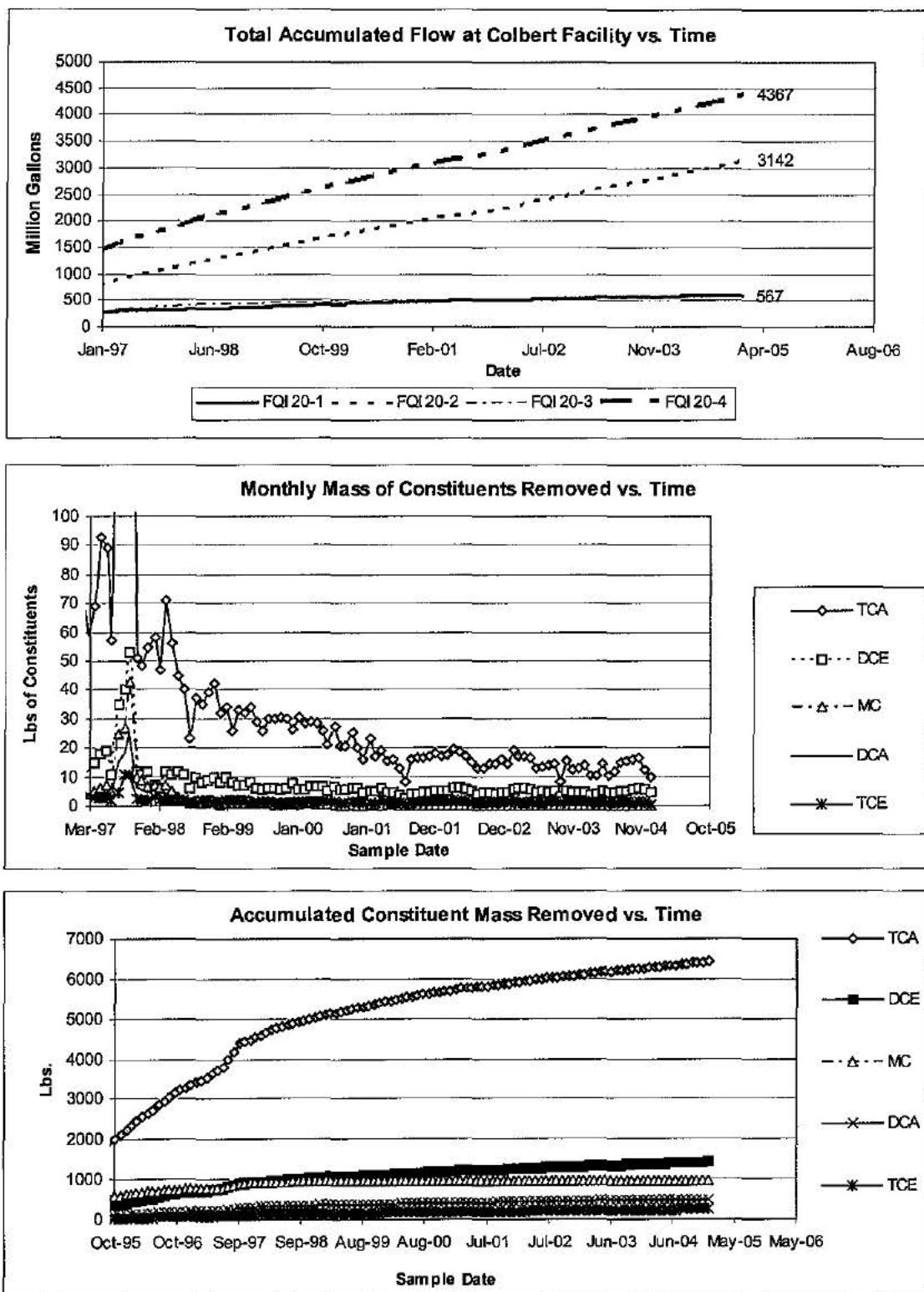
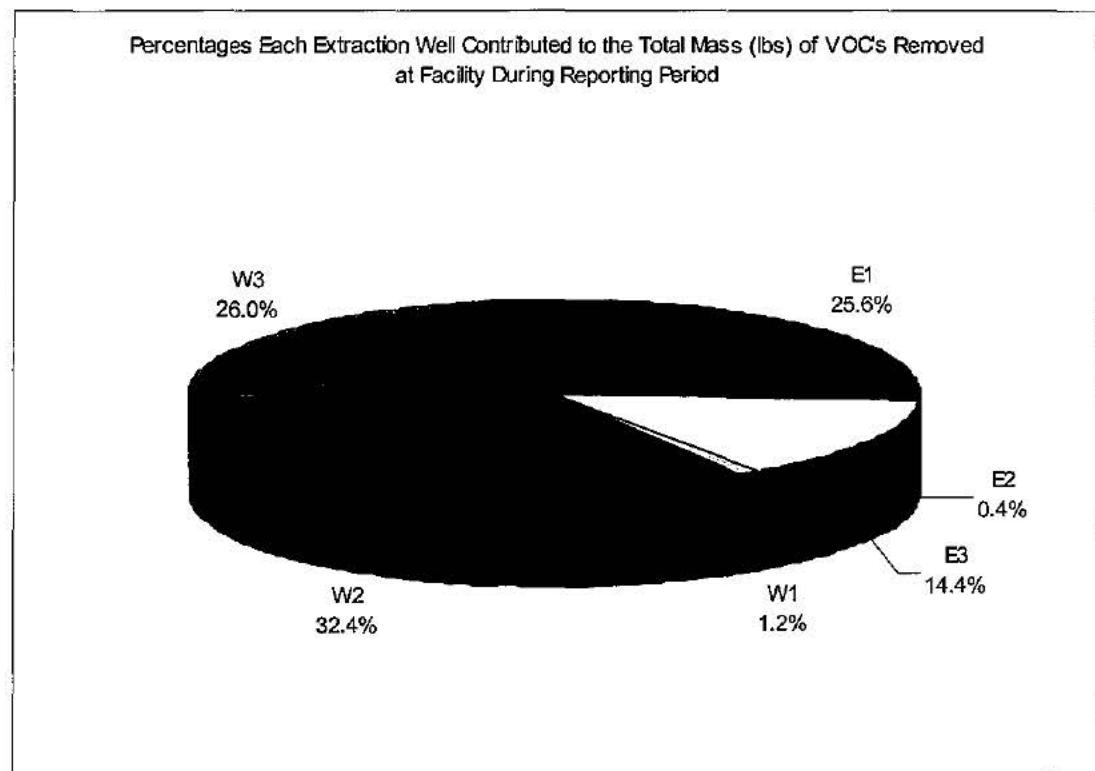
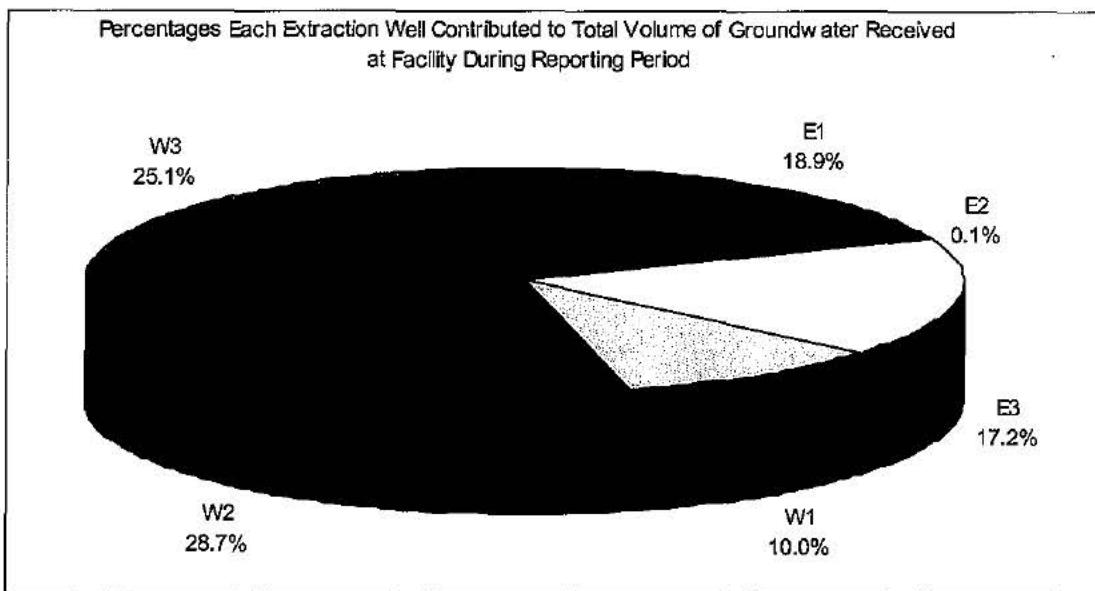


Figure 2-19 Volumes and Mass Removed from Extraction Wells



2.2 PERFORMANCE ASSESSMENT

2.2.1 UPPER AQUIFER

All south system extraction wells constituent of concern concentrations below the adjustment control criteria during this reporting period.

The general direction of groundwater flow in the upper aquifer is south.

2.2.2 LOWER AQUIFER

Lower aquifer compliance monitoring wells and domestic wells continue to exhibit constituent of concern concentrations below performance criteria. Groundwater elevation contours and flow lines indicate capture is being achieved in the lower aquifer in the area surrounding the landfill.

2.2.3 ACTIONS TAKEN

Per conditions set forth in the consent decree (Appendix B, page V-7), the south system extraction wells are not required to be in operation, and have been on system stand-by since June 2004.

No other actions or adjustments resulting from performance data were made during this reporting period.

3 OPERATIONAL

3.1 OPERATIONAL DATA

3.1.1 FACILITY

The operational data summary for the facility can be found in Table 3-1. The facility averaged 24.0 hours per day on line for the reporting period. Volume of water treated through the system was approximately 90.8 million gallons, a -3.3 percent difference from last quarter. The air to water ratio averaged 101.1 for the quarter. Approximately 218 gallons of scale prevention chemical was used during this quarter at an average rate of 9.1 mls/1000 gallons. Flow error percentages for each influent trunk line were less than 1%. Daily data collection time averaged 100.00 percent.

3.1.2 WELLS

The operational data summary for the extraction wells is presented in Table 3-2. Time on line for all operating extraction wells was greater than 88 percent. Flow rates in all extraction wells were consistent during this reporting period (Figure 3-2). Extraction well specific capacities are presented in Figure 3-2.

3.2 OPERATIONAL ASSESSMENT, PROBLEMS AND ADJUSTMENTS

3.2.1 FACILITY

The following problems or adjustments were present during this reporting period:

- On 12/9 the level of scale control chemical was found to be inaccurate. Diagnostics showed that the level probe needed cleaning. Once cleaned the level in the tank read correctly.

3.2.2 WELLS

The following problems and/or adjustments were present during this reporting period:

- Pump tests were performed on the wells the week of 10/13.
- On 10/12 radio communications faulted briefly at all wells.

Table 3-1 Colbert Treatment Facility Operational Data Sheet

Reporting Period: 3rd Quarter 2004

INFLUENT SYSTEM (20)				
Flow Rate (gpm)	FI 20-1	FI 20-2	FI 20-3	FI 20-4
Min	58.5	511.0	0.0	570.6
Max	69.8	625.3	10.1	699.5
Avg	69.4	615.5	0.2	685.1
Flow Rate (MGD)				
Min	0.1	0.7	0.0	0.8
Max	0.1	0.9	0.0	1.0
Avg	0.1	0.9	0.0	1.0
Accumulated Flow (kgal)				(MGD)
3rd Quarter 2004	9196.5	81536.6	27.6	90.8
Change from last quarter (% Diff)	2.7	-4.0	27.4	-3.3
Year to Date	33653.9	305186.6	9526.4	348.4
Flow Error %				
Min	-0.40	-0.13	0.00	
Max	1.00	0.69	0.00	
Avg	0.14	0.21	0.00	
Pressure	PIT 20-1			
Min	27.5			
max	27.7			
Avg	27.7			

BYPASS SYSTEM (21)		
Flow Rate (gpm)	FE 21-1	
Min	0.0	
Max	0.0	
Avg	0.0	
Flow Rate (MGD)		
Min	0.0	
Max	0.0	
Avg	0.0	
Accumulated Flow (kgal)		
This Quarter	0.0	
Change from last quarter (% Diff)	0.0	
Year to Date	0.0	
Flow Error %		
Min	0.0	
Max	0.0	
Avg	0.0	
Pressure	PIT 21-1	
Min	2.0	
max	2.1	
Avg	2.0	

SUMP SYSTEM (28)	Pumps		Exhaust fan	
	Batch P28-1	Airstripper P28-2	Building P28-3	EF28-1
Time On-Line				
Avg hours per day	0	0	0	0.9
Quarterly total	0.1	0.8	1.8	1.8
Year to Date	0.1	4.4	8.4	152.5
Temperature (deg. F)	TT28-1	TT28-2		
Min	36.6	41.8		
Max	53.1	54.9		
Avg	44.5	48.5		

SCALE CHEMICAL SYSTEM (22)	Feed pumps	
	P22-1	P22-2
Time On-Line		
Avg hours per day	24.0	0.0
Quarterly total	2208.4	0.0
Year to Date	3191.4	1214.2
Level (ft)	Tank T-1	
Min	4.7	
Max	5.3	
Avg	5.2	
Avg Feed Rate	9.1	(mls/kgal)
Volume Used	218	(gallons)

Colbert Treatment Facility Operational Data Sheet (continued)

AIRSTRIPPING SYSTEM (24)						
Pressure	Filter	Fan	Tower	pH	pH 1	pH 2
	DP24-1	PIT24-2	PIT24-2		AE24-1	AE24-2
Min	0.1	0.7	0.2		Min	7.16
Max	0.2	0.9	0.8		Max	7.85
Avg	0.1	0.8	0.6		Avg	7.43
						7.80
						7.90
						7.84
 Fan						
Fan	Fan Flow (cfm)	Air/Water	VFD Speed (%)	Time Online (hrs)	ClearWell	Temp (F)
	Min	8257.7	89.8	33.0		Level (ft)
Max	10024.6	115.2	35.8	24.1	Min	49.3
Avg	9182.7	101.1	34.5	24.0	Max	52.3
Accum Flow (MCF)					Avg	51.3
this quarter	1287.0			2204.1		1.0
Year to Date	17937.0			4335.2		1.0

Data Collection Time	(% Day)
Min	100.00
Max	100.00
Avg	100.00

Table 3-2 Colbert Treatment Facility Extraction Wells Operational Data Sheet

	South System			West System			East System			
	CP-S1	CP-S4	CP-S5	CP-S6	CP-W1	CP-W2	CP-W3	CP-E1	CP-E2	CP-E3
Water Level Above Pump (ft)										
Min	15.03	9.84	11.10	9.40	83.14	39.70	43.21	21.60	5.00	16.79
Max	16.00	10.20	12.20	9.50	83.76	40.82	43.86	27.81	5.19	17.83
Avg	15.92	10.10	11.77	9.45	83.34	39.72	43.36	21.83	5.00	16.98
Groundwater Elevation										
Min	1759.69	1759.43	1761.65	1760.15	1666.23	1656.33	1666.00	1658.00	1690.92	1662.30
Max	1760.66	1759.79	1762.75	1760.25	1666.85	1657.45	1666.65	1664.21	1691.11	1663.34
Avg	1760.58	1759.69	1762.32	1760.20	1666.43	1656.35	1666.15	1658.23	1690.92	1662.49
Flow (gpm)										
Min	0.00	0.00	0.00	0.00	58.13	169.19	145.07	55.91	0.01	98.26
Max	3.41	0.00	6.24	0.83	69.42	201.41	173.67	135.25	1.00	119.00
Avg	0.09	0.00	0.10	0.02	69.13	197.60	173.14	130.05	0.65	118.52
Accumulated Flow (kgal)										
This Quarter	0.01	0.00	0.01	0.00	9.16	26.18	22.94	17.23	0.09	15.70
Diff from last quarter (%)	-50.9	-12.0	0.0	0.0	9.4	-16.4	21.0	18.5	40.0	-8.9
Year To Date										
Total	11.40	2.32	3.36	0.00	48.78	62.56	44.95	46.54	0.46	51.65
Specific Capacity										
Min	-3.20	0.00	-2.3	0.00	0.0	0.00	0	0	0.00	0.00
Max	0.00	0.00	0.00	10.42	35.50	17.48	84.88	23	0.04	20.29
Avg	-0.06	0.00	-0.04	0.26	28.69	15.57	66.57	11.57	0.02	17.32
Pressure										
Min	33.11	30.07	29.07	0.00	32.22	34.65	33.18	29.00	22.16	27.11
Max	34.00	31.07	30.99	0.00	34.14	40.85	38.00	34.00	26.11	32.00
Avg	33.93	30.95	30.01	0.00	33.97	39.74	37.89	33.85	25.95	31.85
VFD Speed (%)										
Min	0.00	1.00	0.00	0.00	70.40	78.06	69.33	44.90	55.74	66.24
Max	7.49	8.74	10.63	3.01	84.00	93.27	83.00	99.37	68.00	80.10
Avg	0.17	1.13	0.18	0.06	83.70	92.19	82.75	96.15	67.74	79.69
Time On-Line										
% of quarter	1.32	1.27	0.19	0.00	95.70	95.80	95.78	94.73	95.68	95.66

Figure 3-1 Extraction Well Flow Rates

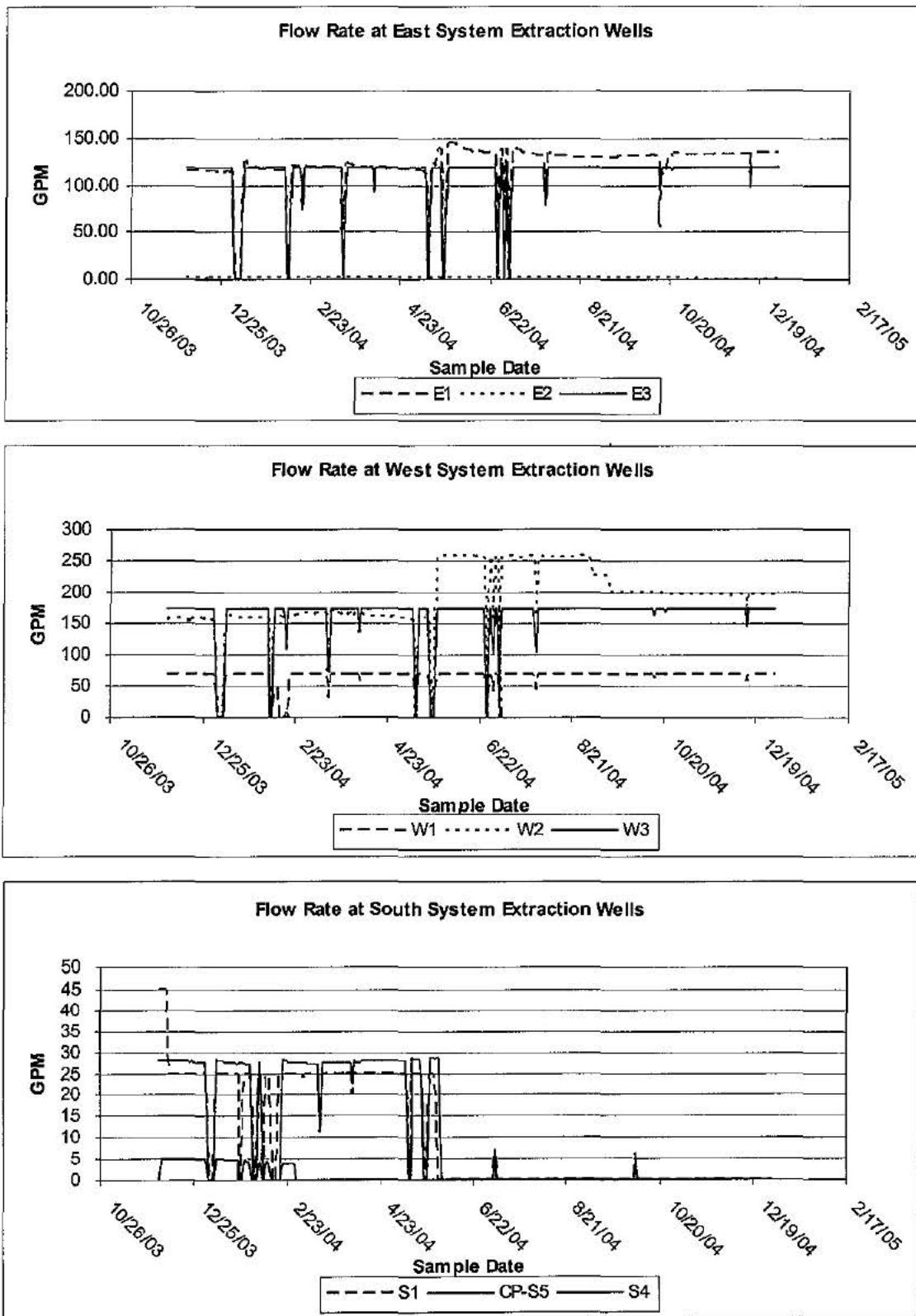


Figure 3-2 Extraction Well Specific Capacities

